



Providing compliant, efficient
and modern clinical environments

The Laboratory

Laboratories and research facilities are areas in which forensic analysis takes place and it is very important that the materials used are fit for purpose and assist the technicians in their tasks.

For example, very heavy laboratory equipment will need additional support framework, sensitive equipment will need vibration reducing materials in the bench design and framework systems will need to be free of holes and slots that could harbour germs.

Whilst specific functions may vary according to the nature of the laboratory or research facility in question, all of them will need to be configured in the best way to suit the room shape, size and workflow.

Stirling Medical and Scientific Ltd have been working with Hospitals, Universities, Government Departments and Architects on various laboratory, pathology and scientific research and development projects for over 20 years. Whether you're looking for a complete materials management system or equipment for a single room, contact our Sales Department today and we will be happy to help.



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[1] The Royal Marsden Hospital laboratory includes compact laminate shelving and the universal bench framing system with overbench shelving (featured on pages 6-8).

[2] Universal overbench shelving brackets have all surfaces fully exposed for easy wipe cleaning. Uprights are pre-drilled and supplied with flush white plastic cover caps.

[3] Benches are situated around a small stub wall in the centre of the room as an alternative option to being an integral part of the frame. Power and data cabling supply is hidden within the wall to the trunking (photo 4).

[4] Overbench power systems will normally include plastic trunking that is fixed to a stub wall (as pictured) or to the bench frame itself.



5

[5] Pathology testing laboratory at Southmead Hospital in Bristol comprising light blue coloured door fronts, Trespa compact grade worktops and undermounted stainless steel sink bowls.

[6] Fixed frame benching and mobile base units at the Cellular Pathology labs, St George's Hospital, London.

[7] Stainless steel lay-on sink bowl with taps mounted within the indent drainer.

[8] Lead lined Systeméd cabinets at the Nuclear Medicine facility, St Helier Hospital.



2



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4



6



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8



[9] Compact grade laminate material is impervious and an ideal product for hospital laboratory worktops and shelves.

[10] Double frame benching system with overbench trunking, mobile base units and privacy end panels.

[11] Workbenches with under and overbench shelving options at a private hospital research facility in London.

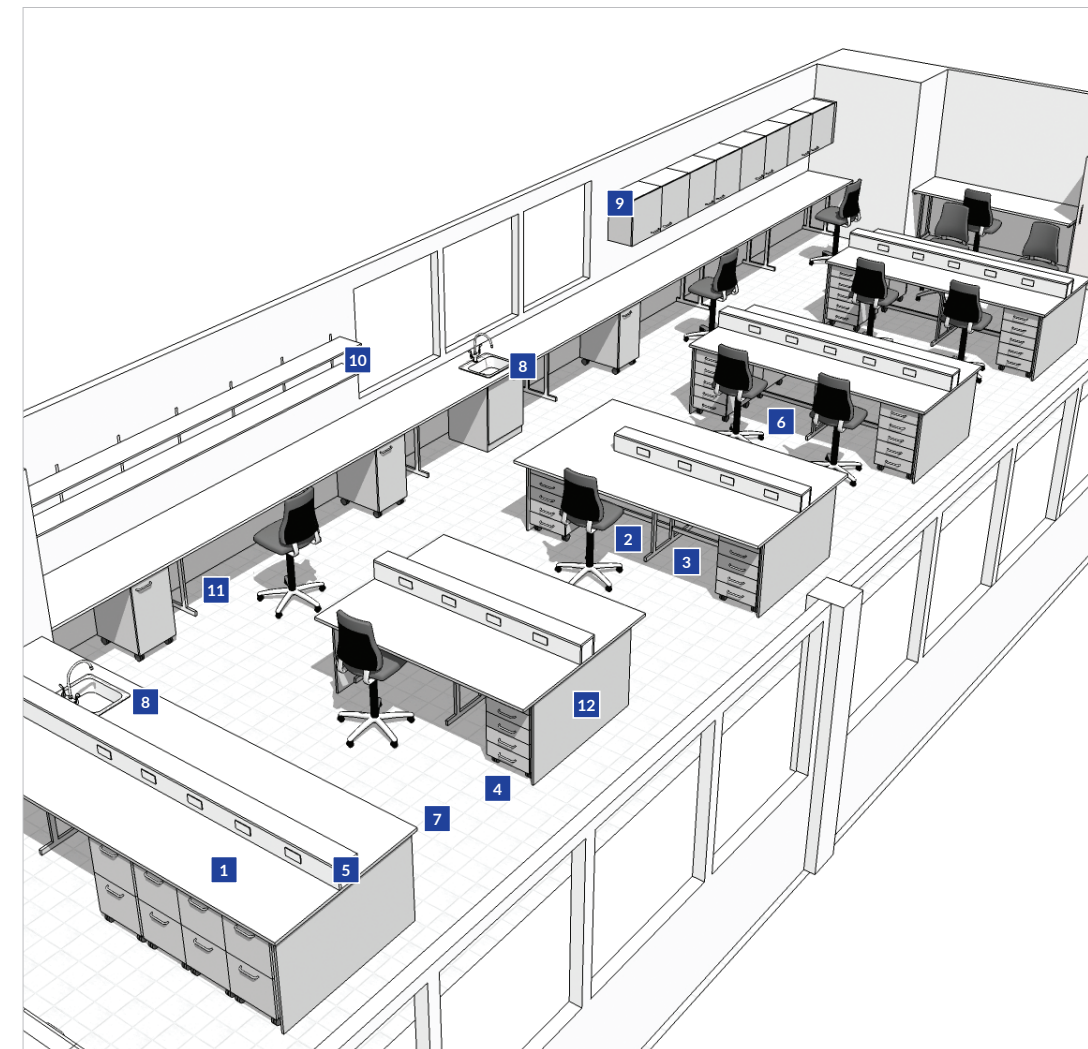
[12] Multiple sets of standard benching frame modules supplied to Government research and testing laboratories.



Project focus: Pathology Laboratory

Hospital laboratories can sometimes be overlooked in importance with staff often working long hours in cramped conditions which do not conform to current containment standards.

These 'back of house' areas provide a very vital supporting function to the wellbeing and care of patients with on-the-spot analysis of critical data for the control of infections and diseases. Careful design is needed to ensure the best working environment is achieved and Systeméd modular storage components will greatly assist in bringing new standards to these areas.



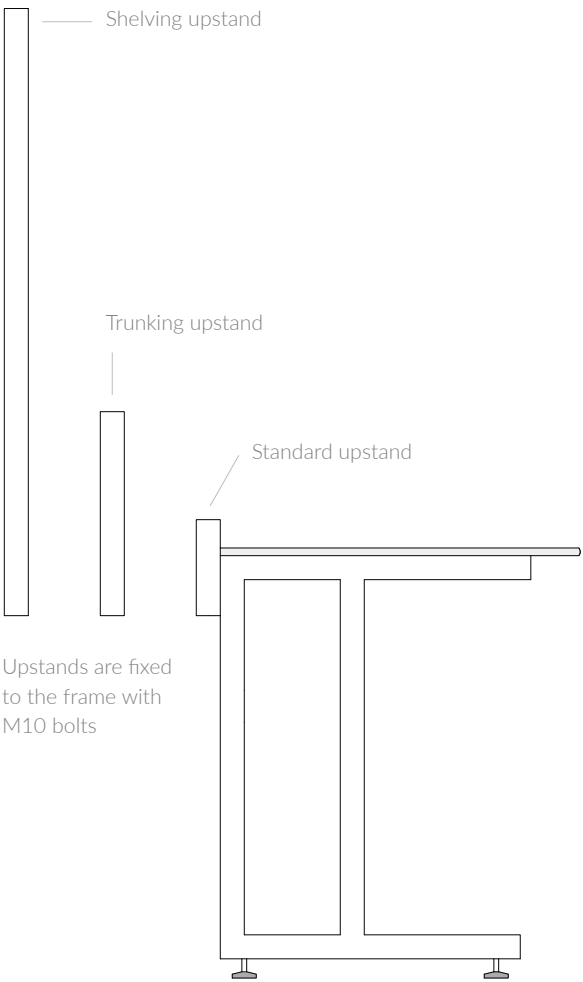
- [1] Solid grade laminate worktops (e.g. Trespa Toplab and FortisQuor Compact) recommended for the laboratory environment
- [2] Special IPE framework design where additional rigidity is required (e.g. cutting benches)
- [3] Bolting to floor may be necessary for additional rigidity
- [4] Mobile base units, create flexibility and are more efficient for cleaning B60, B40 (CE12, CE13, CE14)
- [5] Central service upstand in either Trespa or standard trunking material
- [6] Spacer frames for island benches
- [7] Radiused external corners
- [8] Grade 316 stainless steel sink bowls
- [9] Wall mounted cabinets W40/30, W60/30 (CE15, CE25 etc.)
- [10] Wall shelving
- [11] Individual worktop support
- [12] End cladding panel

Systeméd universal support frame system

The Systeméd universal support frame system is based around a core group of standard products which can be combined in different ways to create multiple layouts.

Base frame modules are connected by spacer frames to suit the worktop dimensions and can be combined with three rear upstand options: standard upstands, trunking upstands and shelving upstands. Under bench shelving options are also available.

Bench frames without upstands can be positioned back-to-back to create a universal island bench framework.



Standard frame components

Universal support frame

The universal support frame system is supplied as standard in two main height variants to suit desk and standing height worktops, and three depth variants with other sizes available to order. The first numbers in the product code represent the worktop finish height. Frames are supplied with adjustable feet for levelling and which can vary heights by up to 20mm.

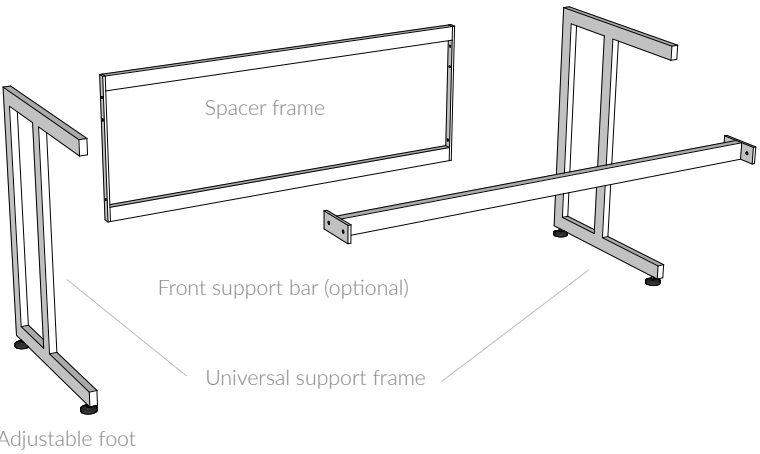
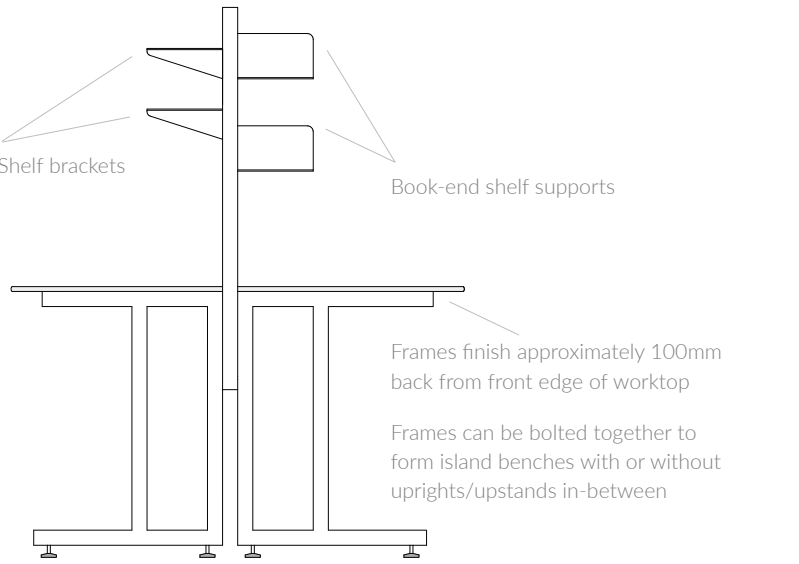
Desk height: To suit 720mm high worktops

Type	Code
Worktop depth up to 600mm	USFDH720/600
Worktop depth up to 750mm	USFDH720/750
Worktop depth up to 850mm	USFDH720/850

Standing height: To suit 900mm high worktops

Type	Code
Worktop depth up to 600mm	USFSH900/600
Worktop depth up to 750mm	USFSH900/750
Worktop depth up to 850mm	USFSH900/850

Note: For higher finish height worktops, change the height part of the code to reflect height required. Eg USFSH1000/750 is the frame code for a 1000mm high worktop that is up to 750mm deep



Spacer frames

Spacer frames are bolted to the universal support frames at the rear to provide a rigid frame structure. Four lengths are supplied as standard to suit worktop run lengths. Other sizes available to order.

Type	Code
750mm long	SF750
900mm long	SF900
1000mm long	SF1000
1100mm long	SF1100
1450mm long	SF1450

Front support bars

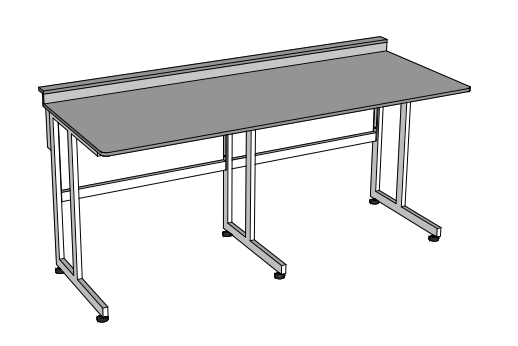
Front support bars are used where heavy laboratory equipment is going to be used and help to provide additional support for the worktop between the universal frames. Lengths to suit spacer frames.

Type	Code
750mm long	FSB750
900mm long	FSB900
1000mm long	FSB1000
1100mm long	FSB1100
1450mm long	FSB1450

Shelf brackets and book-end supports

Type	Code
Shelf bracket (250mm long)	USFSB25
Book-end support (250mm long)	USFBE25

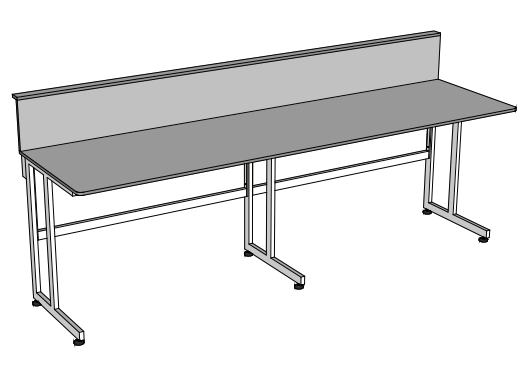
Systeméd universal support frame types



Universal frame with upstand

The standard frame can be supplied with or without the upstand fitting to suit site requirements. The upstand part is bolted to the rear of the frame and provides a support for a 50mm high upstand piece which can also be capped off as required. This frame is ideally suited for situations where the frame is not able to be connected to the wall for support so a cantilever worktop leg or worktop support batten is not an option. For deep island tops where no upstand is required, frames can be fixed back to back to provide the needed support across the centre.

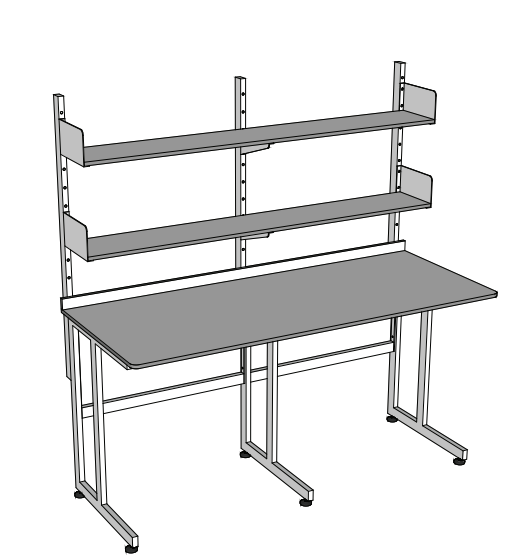
Type	Code
Standard upstand part, for 50mm upstand	USFSTUP



Universal frame with trunking upstand

The trunking upstand piece is similar to the standard upstand piece above and extends 300mm above the worktop. This is so that a back panel can be fixed to it for electrical trunking runs or if a higher upstand is required.

Type	Code
Trunking upstand part	USFTRUP



Universal frame with shelving upstand

The shelving upstand extends 900mm above the worktop and is supplied with fixing holes at 50mm centre. Shelves can be supported on shelf end support brackets or standard brackets which do not have any concealed parts that are difficult to clean. Unused fixing holes in the uprights are sealed over with a small plastic plug. Also use the shelving upstand for privacy panels or for fixing trunking back panels at a higher level.

Type	Code
Shelving upstand part	USFSHUP

Worktop supports



White cantilever leg

Adjustable height cantilever worktop support legs supplied with fixing brackets and worktop tilt adjustment feature for perfectly level worktops. Suitable for low level power trunking. Supplied with adjustable feet allowing for height variation of +/- 40mm.

Desk height (720mm)	Code	Standing height (900mm)	Code
For 600mm worktop depth	WCL67	For 600mm worktop depth	WCL69
For 700mm worktop depth	WCL77	For 700mm worktop depth	WCL79
For 750-800mm worktop depth	WCL87	For 750-800mm worktop depth	WCL89



Chrome legs

60mm diameter tubular steel leg in polished chrome finish and adjustable foot, suitable for all worktops. Includes adjustable height feet to adjust +/- 20mm.

Height	Code
Desk height	CL716
Standing height	CL876
Higher standing height	CL116



White cantilever worktop support bracket

Heavy duty worktop support bracket for situations where the worktop supports need to be kept clear of the floor. Supplied complete with worktop fixing brackets.

Worktop depth	Code
600 – 700mm	WCA06
750 – 800mm	WCA07



White 2.4m ABS edged worktop support batten

Melamine coated support batten used to provide continuous support to worktop rear edges. Recommended for all areas where worktops are not supported by base cabinets.

Size	Code
2400 x 50 x 18mm	902224

Compact grade laminate worktops

Compact grade worktops are composed from layers of woodbased fibres or Kraft paper impregnated with thermosetting resins and surface layers bonded in a combination of high temperature and pressure. This is a very hard wearing worktop which is virtually impervious to water penetration, particularly suited for areas near water and laboratories where greater chemical resistance is required.

There are three main product ranges:

Trespa Toplab Base
Standard range, coloured both sides. 16mm thick, black core

Trespa Toplab Plus
Higher grade with improved chemical resistance, coloured on one face, 16mm and 20mm thickness, black core

FortisQuor Compact
Standard range product in two colours with matching colour core. 12mm thick and 20mm thickness.

Features and benefits

- Advantages**
- Impervious to liquids
 - High impact and chemical resistance
 - Radius corners possible
 - Can be cut to almost any shape
 - Very durable

- Disadvantages**
- Limited colour range
 - Sheet size limitations – joints needed on long lengths and corners

- Recommended**
- All areas
 - Laboratories
 - Pharmacies
 - Shaped worktops
 - Island benches



Solid grade laminate worktop with splash protectors

Worktop information and codes

Trespa Toplab Base and Trespa Toplab Plus

16mm compact grade worktops with crescent edge profile

Size	Colour	Code
3000 x 50 x 18mm	White	WKT30-UPS-WH
3000 x 50 x 18mm	Light Grey	WKT30-UPS-GY

3m long worktop blanks

Size	Code
3m x 500mm	WKT30-WH-305
3m x 600mm	WKT30-WH-306
3m x 700mm	WKT30-WH-307

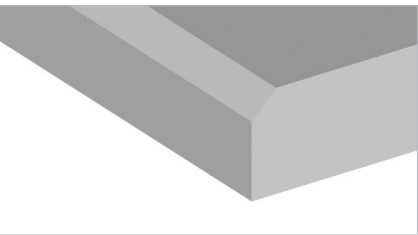
E0-01 White

Size	Code
3m x 500mm	WKT30-GY-305
3m x 600mm	WKT30-GY-306
3m x 700mm	WKT30-GY-307

E0-02 Silver Grey

FortisQuor Compact

FortisQuor compact has a through-colour core instead of the typical black core associated with compact grade materials. This improves the finished worktop appearance and provides better resistance to impact damage.



Size	Code
3m x 500mm	WKT36-GY-305
3m x 600mm	WKT36-GY-306
3m x 700mm	WKT36-GY-307

B-2001 Clinical Light Grey

Profile	Ref	Core Description	Specification
	WKT30	SGL	16mm thick compact grade laminate with polished crescent front profile and 50mm rear lay-on upstand
	WKT35	SGL	20mm thick compact grade laminate with polished crescent front profile and 50mm rear lay-on upstand
	WKT36	FortisQuor	20mm thick FortisQuor Compact grade laminate with polished chamfered front edge profile and 50mm rear lay-on upstand

Laboratory grade stainless steel sink bowls

Laboratory grade sink bowls are supplied in grade 316 stainless steel. All bowls are supplied without an overflow as standard to help with infection prevention requirements.

Rim mounted inset bowls



Advantages
Quick and simple to fit with a simple worktop shape cutout. Cut edge is hidden and covered by the bowl.

Disadvantages
Water splashes can be trapped outside the bowl rim edge.

Inset bowls are 180mm deep and supplied with a small, raised rim around the top of the bowl that seals down to the work surface and can be used with all worktop materials. Waste kit included.

Size	Code
420mm x 350mm x 180mm (medium)	SA214235
500mm x 400mm x 250mm (large)	SA215638

Lay-on sink bowl



Sink bowl with drainer suitable for mounting over a 1000mm wide base cabinet or stainless steel support legs or wall mounted brackets. Bowl supplied with 200mm tap hole centres. Standard waste kit included.

Bowl size 400mm x 400mm x 200mm deep. Overall dimensions: 1000mm x 600mm.

Type	Code
Left-hand drainer	SA22045LT
Right-hand drainer	SA22045RT
Wall brackets	SA26523
Front support legs	SA26524

Undermounted inset bowls



Advantages
Worktop surface water is not trapped outside the sink bowl edge.

Disadvantages
Can be difficult and costly to achieve a perfect worktop matching profile to suit the sink bowl.

Undermounted inset sink bowls are sometimes chosen instead of the rim mounted type and are fixed and sealed to the underside of the worktop. Drainage grooves can be machined into the worktop.

Size	Code
420mm x 350mm x 180mm (medium)	SA304235
500mm x 400mm x 250mm (large)	SA305638

Inset with drainer



This is the most popular bowl type and can be used with all worktop materials. Supplied with or without 200mm tap hole centres. Standard waste kit included.

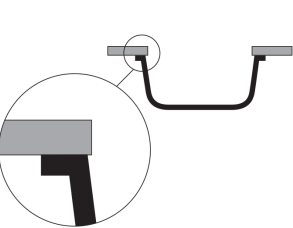
Bowl size 420mm x 345mm x 180mm deep. Overall dimensions: 940mm x 485mm.

Type	Tap holes	Code
Left-hand drainer	No	SA414411
Right-hand drainer	No	SA414412
Left-hand drainer	Yes	SA414421
Right-hand drainer	Yes	SA414422

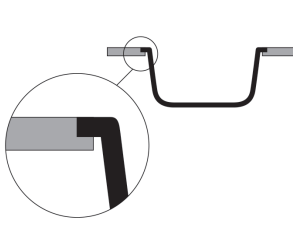
Laboratory grade epoxy resin sink bowls

Moulded epoxy sinks are designed to be fitted into a rebated cut out in the worktop for drop-in fitment or screwed and bonded to the underside of the worktop. They are fabricated from a smooth, hard-wearing material which is easy to clean and decontaminate. The main stock colour is Black with other colours including White, Grey and Slate Grey available to order. All sinks are supplied with the waste outlet to the rear corner and designed to accept a 73mm flange waste with a 1½ inch BSP connection.

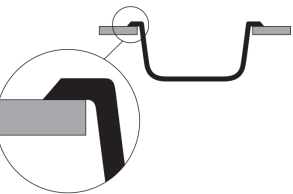
Fixing options



Undermounted



Flush mounted



Rim mounted

Inset bowls with drainer



Inset bowls can be supplied with a left-hand or right-hand drainer and with or without tap holes. Drainer sizes to suit chosen bowl size and worktop dimensions.

Inset sink bowls



Size (L x W x D)	Code
300 x 200 x 200mm	EPXYS302020
356 x 254 x 152mm	EPXYS352515
406 x 305 x 203mm	EPXYS403020
400 x 400 x 300mm	EPXYS404030

Lay-on epoxy sink bowl worktops



Inset bowls can be supplied within a recessed worktop surround to create a contained sink unit to suit supporting cabinet sizes.

HTM64 compliant tap sets

Pillar mounted mixer tap



Markwik demountable pillar mixer tap (TB H2a) with integral thermostat and single sequential lever operation. With or without detachable spout.

Option	Code
Detachable spout	SF404734
Non-detachable spout	SF270336

Single lever taps



Single lever action tap set for unmixed hot water and cold water supply.

Code
SF107444 (set)

Lever action mixer tap type A



Bench mounted, goose neck, laboratory specific mixer tap set with anti-splash nozzle and lever action controls.

Code
WSABT4144

Lever action mixer tap type B



Bench mounted goose neck laboratory specific mixer tap set with anti-splash nozzle and lever action controls.

Code
WSABT1614

Hand turn pure water taps



Rigid goose neck pure water taps for distilled, de-ionized or reverse osmosis water with hand turn controls.

Option	Code
Low level wrist turn control	WSABT7833
High level wrist turn control	WSABT3133

Lever action cold water tap



Rigid goose neck cold water laboratory specific tap with lever action control.

Code
WSABT6144

Modular Workstations

The Systeméd modular laboratory workstation range comprises a bench framework that is made to suit the HTM71 module size cabinets and can be supplied with or without the base cabinet as indicated in the images below. Workstations include overbench shelving with x2 angled display shelves. Overall bay lengths come in three sizes: 700mm (to suit the 655mm wide module cabinet width), 1000mm (to suit 2 x 455mm wide modules) and 1200mm (to suit a combination of 655mm + 455mm modules). All worktops are 700mm deep.



700mm x 700mm deep

Type	Code
Open	LMWO700
With cupboard	LMWC700
With drawers (pictured)	LMWD700



1000mm x 700mm deep

Type	Code
Open	LMWO1000
With 2 cupboards	LMWCC1000
With 1 cupboard and 1 drawer unit (pictured)	LMWCD1000
With 2 drawers	LMWDD1000



1200mm x 700mm deep


Type	Code
Open (pictured)	LMWO1200
With 1 cupboard and 1 drawer unit	LMWCD1200




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